

WEST**Freeform Search****Database:**

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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Term:

17 and ((slow\$2 or rate) near9 (discharg\$3))

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USPT,JPAB,EPAB,DWPI,TDBD	17 and ((slow\$2 or rate) near9 (discharg\$3))	11	<u>L24</u>
USPT,JPAB,EPAB,DWPI,TDBD	17 and (slow\$2 near9 discharg\$3)	6	<u>L23</u>
USPT,JPAB,EPAB,DWPI,TDBD	17 and (slow\$2 near4 discharg\$3)	5	<u>L22</u>
USPT	5184225.pn.	1	<u>L21</u>
USPT	5682083.pn.	1	<u>L20</u>
USPT	118 and (diode or capacit\$4)	1	<u>L19</u>
USPT	5699236.pn.	1	<u>L18</u>
USPT	116 and (diode or capacit\$4)	1	<u>L17</u>
USPT	4965496.pn.	1	<u>L16</u>
USPT	111 and (diode or capacit\$4)	1	<u>L15</u>
USPT	110 and (diode or capacit\$4)	1	<u>L14</u>
USPT	19 and (diode or capacit\$4)	1	<u>L13</u>
USPT	18 and diode	0	<u>L12</u>
USPT	4544954.pn.	1	<u>L11</u>
USPT	4459517.pn.	1	<u>L10</u>
USPT	4335335.pn.	1	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	4123166.pn.	3	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	16 and capacit\$4	227	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	15 and diode	306	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	((circuit\$2 near5 protect\$3) near9 (display or crt\$1 or cathode ray tube\$1))	1042	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 and capacit\$4	2	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	12 and (diode or rectif\$5)	3	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	((power near5 interrupt\$3) near7 (delay\$3)) same (display\$3)	11	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	((power near5 interrupt\$3) near7 (delay\$3)) same (crt)	2	<u>L1</u>

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Term	Documents
DIODE.USPT.	169645
DIODES.USPT.	105288
CAPACIT\$4	0
CAPACIT.USPT.	29
CAPACITA.USPT.	3
CAPACITABLY.USPT.	2
CAPACITACCE.USPT.	3
CAPACITACE.USPT.	9
CAPACITACES.USPT.	4
CAPACITACNE.USPT.	5
(L16 AND (DIODE OR CAPACIT\$4)).USPT.	1

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Refine Search:

116 and (diode or capacit\$4)	▲
	▼

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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	116 and (diode or capacit\$4)	1	<u>L17</u>
USPT	4965496.pn.	1	<u>L16</u>
USPT	111 and (diode or capacit\$4)	1	<u>L15</u>
USPT	110 and (diode or capacit\$4)	1	<u>L14</u>
USPT	19 and (diode or capacit\$4)	1	<u>L13</u>
USPT	18 and diode	0	<u>L12</u>
USPT	4544954.pn.	1	<u>L11</u>
USPT	4459517.pn.	1	<u>L10</u>
USPT	4335335.pn.	1	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	4123166.pn.	3	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	16 and capacit\$4	227	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	15 and diode	306	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	((circuit\$2 near5 protect\$3) near9 (display or crt\$1 or cathode ray tube\$1))	1042	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 and capacit\$4	2	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	12 and (diode or rectific\$5)	3	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	((power near5 interrupt\$3) near7 (delay\$3)) same (display\$3)	11	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	((power near5 interrupt\$3) near7 (delay\$3)) same (crt)	2	<u>L1</u>

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Search Results - Record(s) 201 through 210 of 227 returned.

☐ 201. Document ID: US 3555348 A

L7: Entry 201 of 227

File: USPT

Jan 12, 1971

US-PAT-NO: 3555348

DOCUMENT-IDENTIFIER: US 3555348 A

TITLE: CATHODE RAY TUBE SCREEN PROTECTION SYSTEM

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 202. Document ID: JP 11167129 A

L7: Entry 202 of 227

File: JPAB

Jun 22, 1999

PUB-NO: JP411167129A

DOCUMENT-IDENTIFIER: JP 11167129 A

TITLE: LIQUID CRYSTAL DISPLAY DEVICE HAVING ELECTROSTATIC PROTECTIVE CIRCUIT AND DISPLAY INSPECTION METHOD UTILIZE THIS CIRCUIT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 203. Document ID: JP 10065931 A

L7: Entry 203 of 227

File: JPAB

Mar 6, 1998

PUB-NO: JP410065931A

DOCUMENT-IDENTIFIER: JP 10065931 A

TITLE: PROTECTION CIRCUIT FOR CRT DISPLAY DEVICE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 204. Document ID: JP 09149631 A

L7: Entry 204 of 227

File: JPAB

Jun 6, 1997

PUB-NO: JP409149631A
DOCUMENT-IDENTIFIER: JP 09149631 A
TITLE: POWER SUPPLY APPARATUS

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 205. Document ID: JP 07307873 A

L7: Entry 205 of 227

File: JPAB

Nov 21, 1995

PUB-NO: JP407307873A
DOCUMENT-IDENTIFIER: JP 07307873 A
TITLE: IMAGE DISPLAY DEVICE HAVING PROTECTION CIRCUIT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Clip Img	Image
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☐ 206. Document ID: JP 06153002 A

L7: Entry 206 of 227

File: JPAB

May 31, 1994

PUB-NO: JP406153002A
DOCUMENT-IDENTIFIER: JP 06153002 A
TITLE: DISCHARGE PROTECTION CIRCUIT FOR HORIZONTAL DEFLECTING CIRCUIT OF CATHODE-RAY TUBE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Clip Img	Image
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☐ 207. Document ID: JP 04017467 A

L7: Entry 207 of 227

File: JPAB

Jan 22, 1992

PUB-NO: JP404017467A
DOCUMENT-IDENTIFIER: JP 04017467 A
TITLE: PROTECTION CIRCUIT FOR CATHODE RAY TUBE DESTRUCTION

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Clip Img	Image
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☐ 208. Document ID: JP 02193186 A

L7: Entry 208 of 227

File: JPAB

Jul 30, 1990

PUB-NO: JP402193186A
DOCUMENT-IDENTIFIER: JP 02193186 A
TITLE: PROTECTING CIRCUIT FOR CATHODE RAY TUBE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 209. Document ID: JP 01248764 A

L7: Entry 209 of 227

File: JPAB

Oct 4, 1989

PUB-NO: JP401248764A

DOCUMENT-IDENTIFIER: JP 01248764 A

TITLE: CATHODE RAY TUBE PROTECTION CIRCUIT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 210. Document ID: JP 01177774 A

L7: Entry 210 of 227

File: JPAB

Jul 14, 1989

PUB-NO: JP401177774A

DOCUMENT-IDENTIFIER: JP 01177774 A

TITLE: CATHODE-RAY TUBE PROTECTING CIRCUIT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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Term	Documents
CAPACIT\$4	0
CAPACIT.DWPI,TDBD,EPAB,JPAB,USPT.	152
CAPACITA.DWPI,TDBD,EPAB,JPAB,USPT.	22
CAPACITABLY.DWPI,TDBD,EPAB,JPAB,USPT.	2
CAPACITACCE.DWPI,TDBD,EPAB,JPAB,USPT.	3
CAPACITACE.DWPI,TDBD,EPAB,JPAB,USPT.	15
CAPACITACES.DWPI,TDBD,EPAB,JPAB,USPT.	5
CAPACITACNE.DWPI,TDBD,EPAB,JPAB,USPT.	6
CAPACITAHCE.DWPI,TDBD,EPAB,JPAB,USPT.	2
CAPACITAIVE.DWPI,TDBD,EPAB,JPAB,USPT.	2
(L6 AND CAPACIT\$4).USPT,JPAB,EPAB,DWPI,TDBD.	227

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Documents, starting with Document: 211

Display Format:

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L7: Entry 221 of 227

File: DWPI

May 31, 1996

DERWENT-ACC-NO: 1996-313331

DERWENT-WEEK: 199632

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TITLE: Display device with light-emitting diode - has protection circuit, which includes resistor and capacitor connected in series, connected in series with pair of light-emitting unit i.e., connected in parallel and arranged with opposing bias, and AC power source

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 222. Document ID: JP 06268880 A

L7: Entry 222 of 227

File: DWPI

Sep 22, 1994

DERWENT-ACC-NO: 1994-345863

DERWENT-WEEK: 199443

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TITLE: Protection circuit for TV image display unit - incorporates abnormal mode judgement circuit for identifying abnormal condition and stops power supply to CRT

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ 223. Document ID: US 5043639 A, CA 2039774 A, DE 4113532 A, GB 2243749 A, GB 2243749 B, JP 04229771 A

L7: Entry 223 of 227

File: DWPI

Aug 27, 1991

DERWENT-ACC-NO: 1991-273914

DERWENT-WEEK: 199137

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TITLE: Video display appts. with CRT spot burn protection circuit - provides grid bias cut-off of kinescope beam current in receivers having cascode type output drive stages

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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224. Document ID: JP 01248764 A

L7: Entry 224 of 227

File: DWPI

Oct 4, 1989

DERWENT-ACC-NO: 1989-335343

DERWENT-WEEK: 198946

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TITLE: Protection circuit for CRT using vertical output
push-pull transistor - has pump-up diode, pump-up capacitors,
feedback period transistor and scanning period-on transistor
NoAbstract Dwg 1/3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ **225. Document ID: DE 3806746 C**

L7: Entry 225 of 227

File: DWPI

Jul 27, 1989

DERWENT-ACC-NO: 1989-213993

DERWENT-WEEK: 198930

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TITLE: HV supply circuit for CRT - has protection resistance
and parallel capacitance across tube in series with third set
of capacitors

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ **226. Document ID: EP 319671 A, DE 3741845 A, DE 3877725 G, EP 319671 B1**

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File: DWPI

Jun 14, 1989

DERWENT-ACC-NO: 1989-174055

DERWENT-WEEK: 198924

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TITLE: Short-current protection system for CRT in TV or
display monitor - switches to standby mode to prevent damage
to vertical deflection circuit

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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☐ **227. Document ID: US 4763046 A**

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File: DWPI

Aug 9, 1988

DERWENT-ACC-NO: 1988-242607
DERWENT-WEEK: 198834
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TITLE: CRT with phosphor burn protection circuit - has capacitor coupled between power supply and junction of diode and control grid for driving grid in negative direction w.r.t. cathode

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Clip Img	Image
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Term	Documents
CAPACIT\$4	0
CAPACIT.DWPI,TDBD,EPAB,JPAB,USPT.	152
CAPACITA.DWPI,TDBD,EPAB,JPAB,USPT.	22
CAPACITABLY.DWPI,TDBD,EPAB,JPAB,USPT.	2
CAPACITACCE.DWPI,TDBD,EPAB,JPAB,USPT.	3
CAPACITACE.DWPI,TDBD,EPAB,JPAB,USPT.	15
CAPACITACES.DWPI,TDBD,EPAB,JPAB,USPT.	5
CAPACITACNE.DWPI,TDBD,EPAB,JPAB,USPT.	6
CAPACITAHCE.DWPI,TDBD,EPAB,JPAB,USPT.	2
CAPACITAIVE.DWPI,TDBD,EPAB,JPAB,USPT.	2
(L6 AND CAPACIT\$4).USPT,JPAB,EPAB,DWPI,TDBD.	227

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16 and capacit\$4

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USPT,JPAB,EPAB,DWPI,TDBD	17 and (((slow\$2 or rate or gradual\$2) near9 (discharg\$3 or lower\$3)) near9 (voltage or capacitor\$1))	11	<u>L25</u>
USPT,JPAB,EPAB,DWPI,TDBD	17 and ((slow\$2 or rate) near9 (discharg\$3))	11	<u>L24</u>
USPT,JPAB,EPAB,DWPI,TDBD	17 and (slow\$2 near9 discharg\$3)	6	<u>L23</u>
USPT,JPAB,EPAB,DWPI,TDBD	17 and (slow\$2 near4 discharg\$3)	5	<u>L22</u>
USPT	5184225.pn.	1	<u>L21</u>
USPT	5682083.pn.	1	<u>L20</u>
USPT	118 and (diode or capacit\$4)	1	<u>L19</u>
USPT	5699236.pn.	1	<u>L18</u>
USPT	116 and (diode or capacit\$4)	1	<u>L17</u>
USPT	4965496.pn.	1	<u>L16</u>
USPT	111 and (diode or capacit\$4)	1	<u>L15</u>
USPT	110 and (diode or capacit\$4)	1	<u>L14</u>
USPT	19 and (diode or capacit\$4)	1	<u>L13</u>
USPT	18 and diode	0	<u>L12</u>
USPT	4544954.pn.	1	<u>L11</u>
USPT	4459517.pn.	1	<u>L10</u>
USPT	4335335.pn.	1	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	4123166.pn.	3	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	16 and capacit\$4	227	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	15 and diode	306	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	((circuit\$2 near5 protect\$3) near9 (display or crt\$1 or cathode ray tube\$1))	1042	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 and capacit\$4	2	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	12 and (diode or rectif\$5)	3	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	((power near5 interrupt\$3) near7 (delay\$3)) same (display\$3)	11	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	((power near5 interrupt\$3) near7 (delay\$3)) same (crt)	2	<u>L1</u>

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Term	Documents
PROTECT\$3	0
PROTECT.DWPI,TDBD,EPAB,JPAB,USPT.	439053
PROTECTA.DWPI,TDBD,EPAB,JPAB,USPT.	15
PROTECTAIR.DWPI,TDBD,EPAB,JPAB,USPT.	75
PROTECTAL.DWPI,TDBD,EPAB,JPAB,USPT.	1
PROTECTALL.DWPI,TDBD,EPAB,JPAB,USPT.	1
PROTECTAN.DWPI,TDBD,EPAB,JPAB,USPT.	1
PROTECTANS.DWPI,TDBD,EPAB,JPAB,USPT.	1
PROTECTANT.DWPI,TDBD,EPAB,JPAB,USPT.	2517
PROTECTAN:.DWPI,TDBD,EPAB,JPAB,USPT.	1
(L9 AND ((PROTECT\$3 OR PREVENT\$3) SAME (BURN\$3 OR DAMAG\$3))) .USPT,JPAB,EPAB,DWPI,TDBD.	17

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19 and ((protect\$3 or prevent\$3) same
(burn\$3 or damag\$3))

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USPT,JPAB,EPAB,DWPI,TDBD	19 and ((protect\$3 or prevent\$3) same (burn\$3 or damag\$3))	17	<u>L10</u>
USPT,JPAB,EPAB,DWPI,TDBD	18 and (crt\$1 or cathode ray tube\$1 or display\$1)	124	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	17 and ((capacit\$3) near9 (voltage\$1 or discharg\$3) near9 (slow\$2 or gradual\$2))	486	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	((315/\$)!.CCLS.)	50495	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 and ((capacit\$3) near9 (voltage\$1 or discharg\$3) near9 (slow\$2))	9	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	3555348[uref]	3	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	13 and (control\$4 near3 grid\$1)	1	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	3555348.pn.	2	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 and ((capacit\$3) near7 (voltage\$1 or discharg\$3) near7 (slow\$2))	9	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	((prevent\$3 or interrupt\$3) near7 (screen or crt\$1 or display\$1 or cathode ray tube\$1 or horizontal output transistor)) same (burn\$3 or damag\$3)	2784	<u>L1</u>